iLink LCD

Installation & User Manual

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Index:

Introduction:

The iLink LCD is an Internet downloadable messaging system utilizing state-of-the-art MPEG compression to achieve truly stunning near-CD quality audio storage and playback. All unit management and audio downloads are accomplished by your dealer using a special controller software suite. When an update is needed your dealer connects to the iLink via your high-speed Internet connection and digitally transfers the MP3 audio files and configuration settings you need. Changes can be initiated on demand, scheduled from minutes to weeks, or the iLink can be instructed to connect automatically and load new audio.
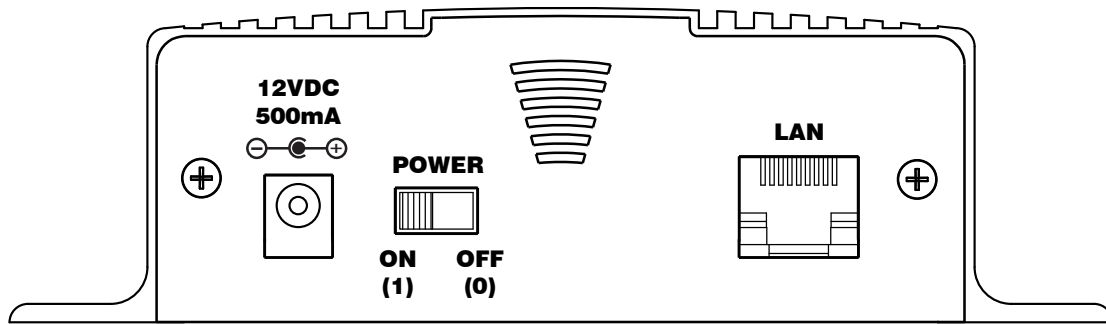
Unpacking and Inspection:

Before you begin installation, unpack and verify you have all the correct parts.

> (1) iLink LCD
> (1) 12VDC @ 500mA power supply
> (1) Ethernet cable
> (1) RCA to RCA cable
> (1) RCA to 3.5mm adapter
> (2) Wall mount screws
> (1) Instruction manual

If you are missing any of these parts STOP and call your dealer.
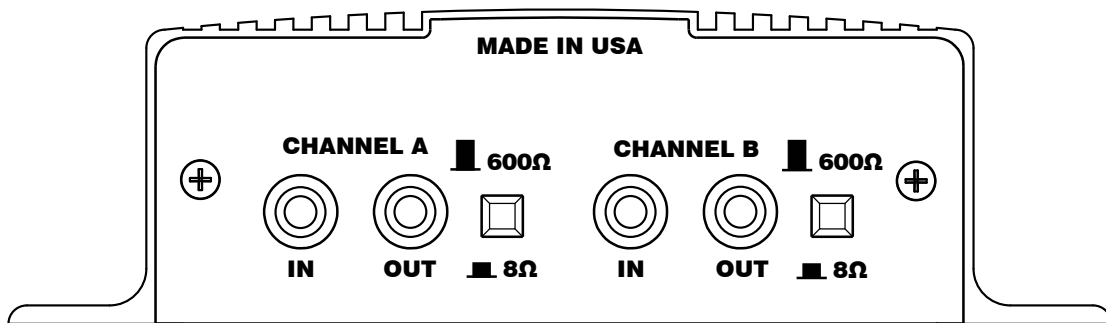
iLink Layout Summary:

Front of Unit

12VDC - This is where the supplied 12VDC @ 500mA power pack is connected.

POWER - Use this switch to turn the unit ON and OFF.

LAN - This jack connects to the local Ethernet that allows the iLink connectivity to the Internet. The jack also has two built in LEDs that report back network activity and speed status.
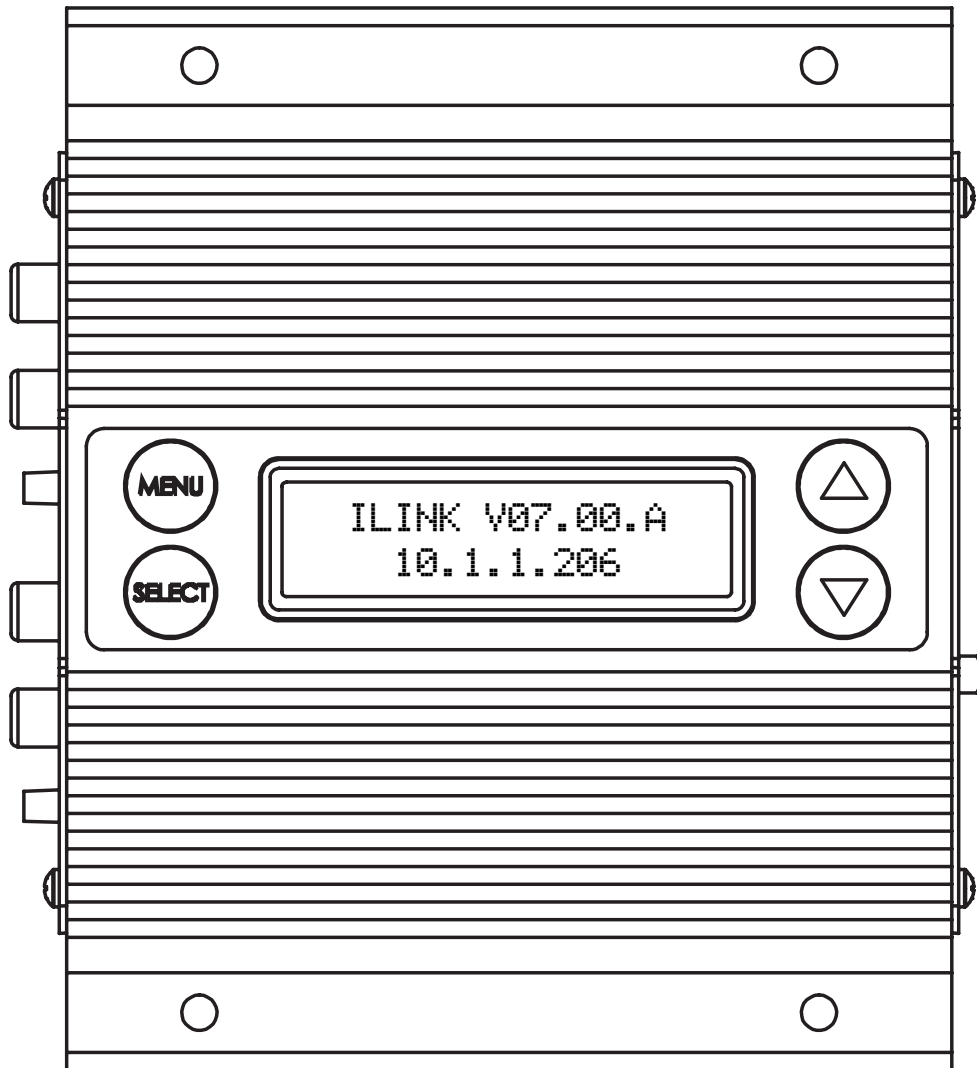
Rear of Unit

CHANNEL A or B (IN) - This signal level jack allows an external BGM (Background Music) source to be fed through the iLink unit.

CHANNEL A or B (OUT) - This jack connects to a phone systems MOH input or a PA amplifier.

8Ω or 600Ω - This switch changes the output impedance of the CHANNEL A or B (OUT) jack.

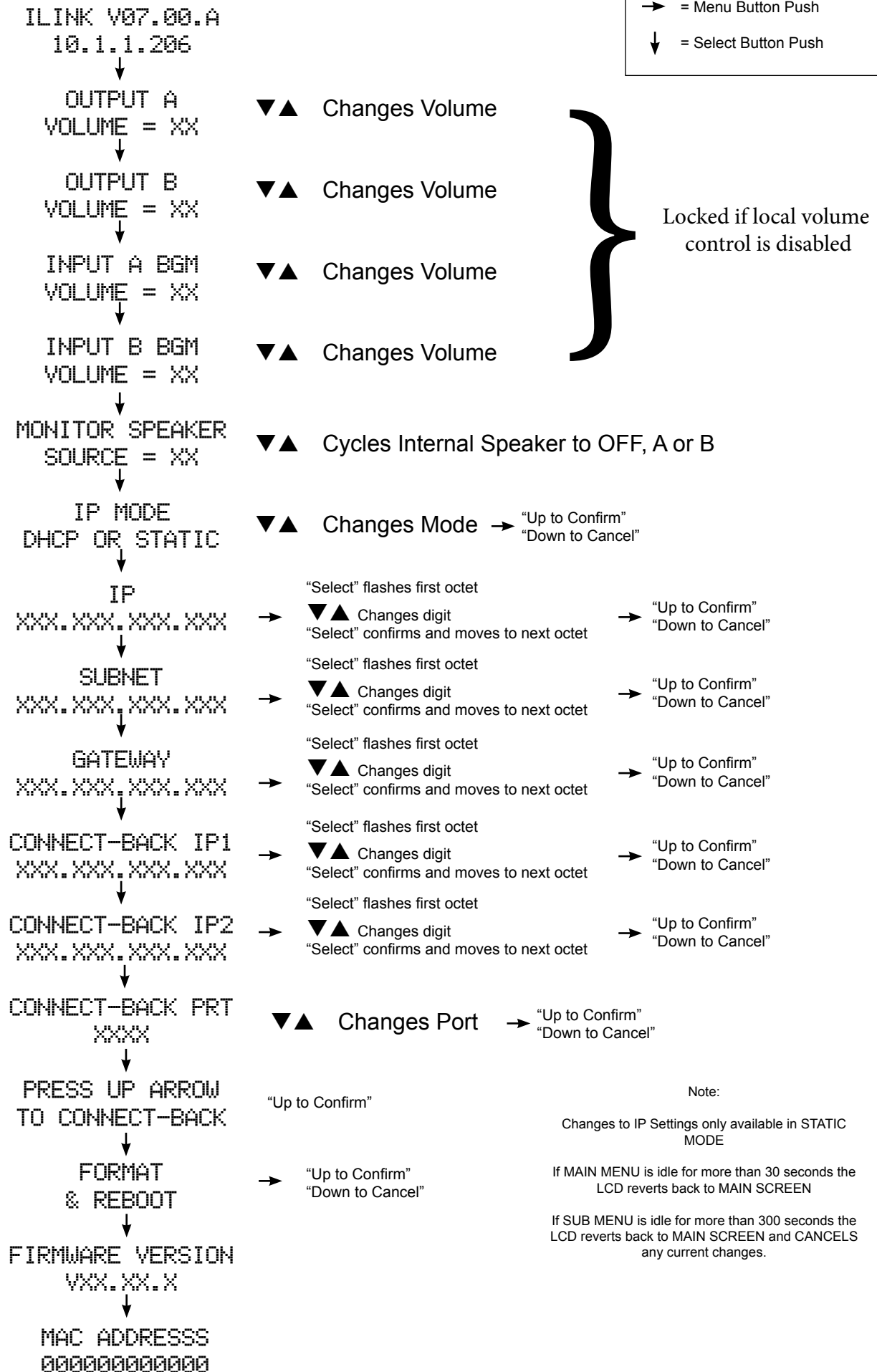**Top of Unit**

ILINK V07.00.A
10.1.1.206

MENU BUTTON - Keypad button used to cycle through menu items.

SELECT BUTTON - Keypad button used to select menu item to be changed.

UP and DOWN BUTTONS - Keypad buttons used to make changes to selected items.

2 x 16 LCD - White lettering on blue backlighting LCD used to display unit information.

LCD Menu

→	= Menu Button Push
↓	= Select Button Push

```
ILINK V07.00.A
   10.1.1.206
```
↓
```
  OUTPUT A
VOLUME = XX
```
▼▲ Changes Volume
↓
```
  OUTPUT B
VOLUME = XX
```
▼▲ Changes Volume
↓
```
INPUT A BGM
VOLUME = XX
```
▼▲ Changes Volume
↓
```
INPUT B BGM
VOLUME = XX
```
▼▲ Changes Volume

Locked if local volume control is disabled

↓
```
MONITOR SPEAKER
  SOURCE = XX
```
▼▲ Cycles Internal Speaker to OFF, A or B
↓
```
   IP MODE
DHCP OR STATIC
```
▼▲ Changes Mode → "Up to Confirm" "Down to Cancel"
↓
```
        IP
XXX.XXX.XXX.XXX
```
→ "Select" flashes first octet
▼▲ Changes digit
"Select" confirms and moves to next octet
→ "Up to Confirm" "Down to Cancel"
↓
```
     SUBNET
XXX.XXX.XXX.XXX
```
→ "Select" flashes first octet
▼▲ Changes digit
"Select" confirms and moves to next octet
→ "Up to Confirm" "Down to Cancel"
↓
```
    GATEWAY
XXX.XXX.XXX.XXX
```
→ "Select" flashes first octet
▼▲ Changes digit
"Select" confirms and moves to next octet
→ "Up to Confirm" "Down to Cancel"
↓
```
CONNECT-BACK IP1
XXX.XXX.XXX.XXX
```
→ "Select" flashes first octet
▼▲ Changes digit
"Select" confirms and moves to next octet
→ "Up to Confirm" "Down to Cancel"
↓
```
CONNECT-BACK IP2
XXX.XXX.XXX.XXX
```
→ "Select" flashes first octet
▼▲ Changes digit
"Select" confirms and moves to next octet
→ "Up to Confirm" "Down to Cancel"
↓
```
CONNECT-BACK PRT
     XXXX
```
▼▲ Changes Port → "Up to Confirm" "Down to Cancel"
↓
```
PRESS UP ARROW
TO CONNECT-BACK
```
"Up to Confirm"

Note:

Changes to IP Settings only available in STATIC MODE

↓
```
   FORMAT
  & REBOOT
```
→ "Up to Confirm" "Down to Cancel"

If MAIN MENU is idle for more than 30 seconds the LCD reverts back to MAIN SCREEN

If SUB MENU is idle for more than 300 seconds the LCD reverts back to MAIN SCREEN and CANCELS any current changes.

↓
```
FIRMWARE VERSION
    VXX.XX.X
```
↓

6

```
MAC ADDRESSS
000000000000
```

Web Browser (Feature on firmware version 07.09X or higher)

The iLink LCD has a built-in password protected web browser that will display the units serial number, firmware version and MAC address. This browser will also allow the units communication mode, connect-back address and port to be changed.

When changing *Mode* either DHCP or STATIC must be typed in the "New Settings" column. When changing to STATIC mode the IP, Subnet and Gateway must all be entered or the settings will not take when submitted. The *Status* will indicate if the settings have been updated to the unit.

Installation :

Step 1: Wall or shelf mount the unit. Rubber feet and screws are supplied in the accessory kit.

Step 2: Verify the power switch on the right side of the unit is set to OFF. Attach the included power pack to a wall or power strip receptacle, then attach the other end to the jack on the right side of the unit labeled 12VDC.
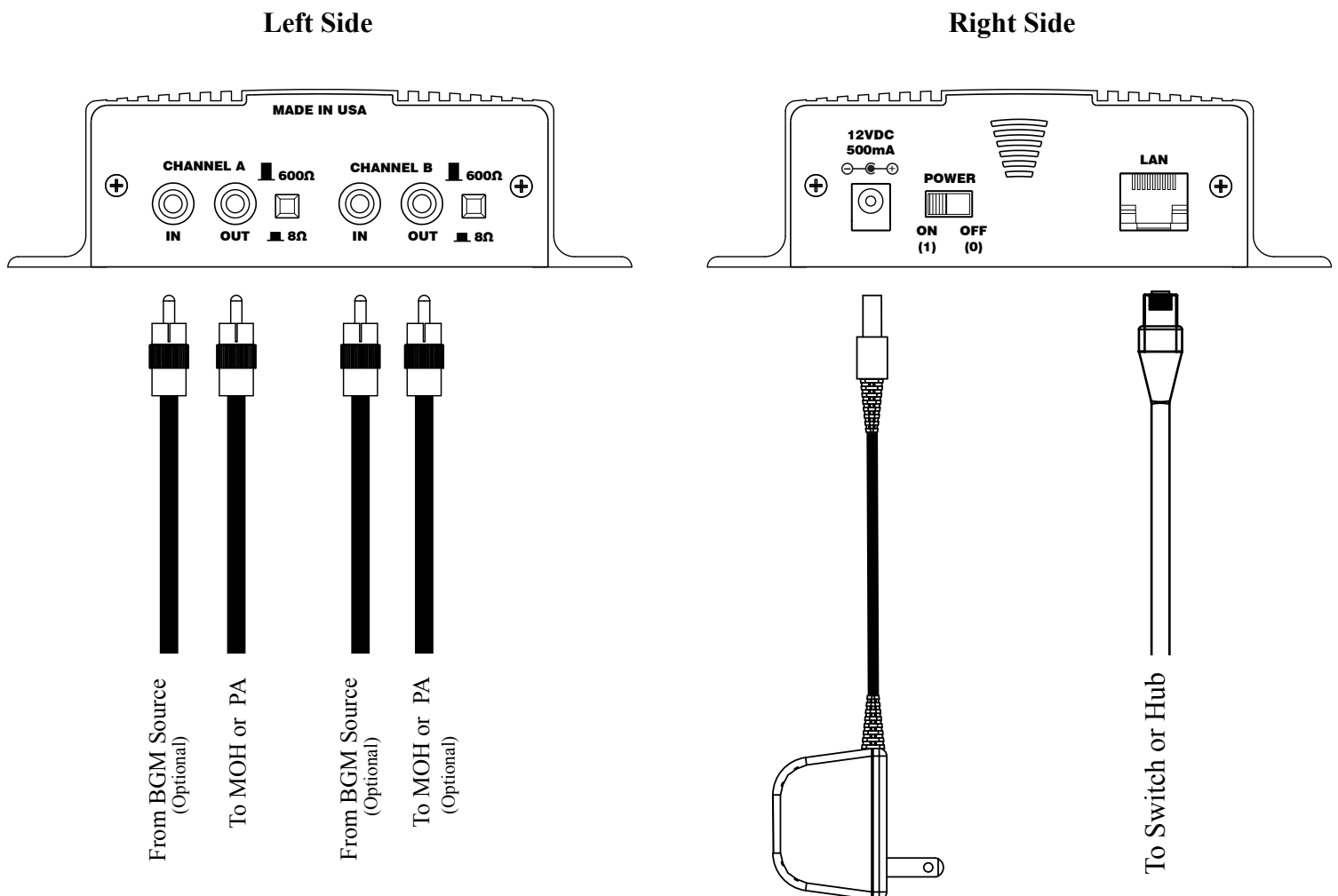
Step 3: If connecting unit to an amplifier make sure it is turned OFF for this part of the installation.

Step 4: Connect a RCA cable (supplied in the accessory kit) to the CHANNEL A (OUT) jack on the left side of the unit. Connect the other end of the RCA cable to a phones MOH port, PA amplifier or speaker. For dual output applications follow the same procedure for the CHANNEL B (OUT).

Step 5: (Optional) For messaging only applications the existing BGM (Background Music) can be fed through the iLink. Connect the audio source to the CHANNEL A or B (IN) jack(s) on the left side of the unit. This jack must only be fed signal level audio - ANY AMPLIFIED AUDIO WILL DAMAGE THE UNIT.

Step 6: Connect an Ethernet cable (supplied in the accessory kit) to the LAN jack on the right side of the unit. Connect the other end to a 10/100 speed switch or hub.

Wiring Diagram

Left Side   **Right Side**

Connectivity Test:

Step 1: Verify the power switch on the right side of the unit is set to ON.

Step 2: On the LCD menu verify unit has a valid IP, subnet and gateway.

Example:

```
            IP
      010.001.001.206

          SUBNET
      255.255.255.128

         GATEWAY
      010.001.001.120
```

Step 3: On the LCD menu go to the "PRESS UP ARROW TO CONNECT-BACK" and press the UP ARROW.

```
      PRESS UP ARROW
      TO CONNECT-BACK
```

Step 4: The LCD will display the "FORCING CONNECT PLEASE WAIT"

```
      FORCING CONNECT
        PLEASE WAIT
```

Step 5: If there is a Connect-Back record waiting for the unit then the LCD will display "ACTIVE CONNECT XXX.XXX.XXX.XXX".

Example:
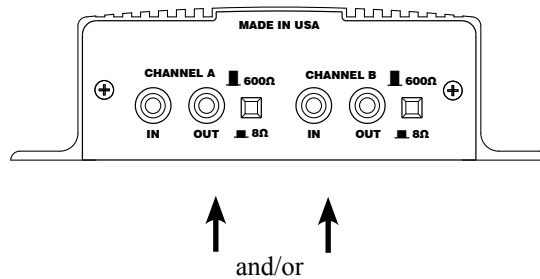```
      ACTIVE CONNECT
        10.1.1.171
```

If there is no record waiting then it will display "CONNECT TO XXX.XXX.XXX.XXX" for one second on the LCD to confirm a successful connectivity.

Example:
```
      CONNECT TO
        10.1.1.171
```

## Channel A & B Output Level Adjustments:

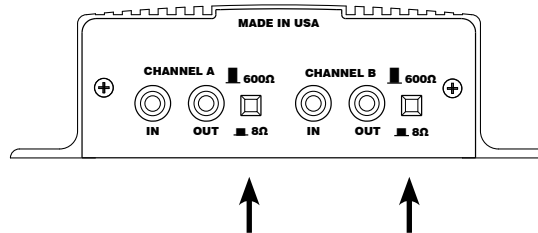*Step 1:* Verify CHANNEL A or B (OUT) is connected to either a phone's MOH port, PA amplifier or speaker.



and/or

*Step 2:* Verify the unit is playing audio by listening to the internal monitor speaker.

```
MONITOR SPEAKER
SOURCE = XX
```

▼▲   Cycles Internal Speaker to OFF, A or B

Step 3: Depending upon the device the 8Ω/600Ω switch may need to be pushed to better match the impedance of the device the iLink is driving.

Step 4: Adjustment of the stored audio output level can be done through the LCD and Menu. Depending upon the application either call into the phone system and be placed on hold OR listen to the PA systems speakers to fine tune volume.

```
OUTPUT A
VOLUME = XX

OUTPUT B
VOLUME = XX
```
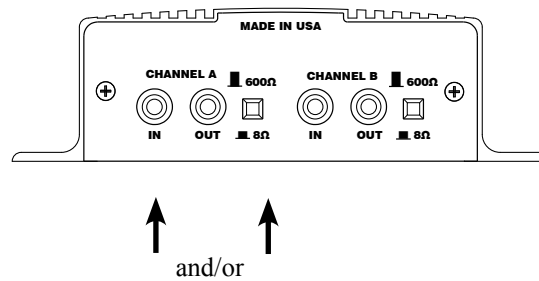
▼▲   Changes Volume

If you see a "LOCKED VOLUME SETTINGS" message then the dealer has locked this setting.
Note: This setting only adjusts the units audio outputs and does not adjust the volume of the internal speaker!

Step 5: All audio adjustments are applied live so changes are saved to the unit instantly.

10

Channel A & B Input BGM Feedthrough Level Adjustments (Optional):

Step 1: Plug feed from an <u>unamplified</u> external background music source to the CHANNEL A or B (IN)

and/or

Step 2: Verify the unit is playing audio by listening to the internal monitor speaker.

```
MONITOR SPEAKER
  SOURCE = XX
```

▼▲   Cycles Internal Speaker to OFF, A or B

Step 3: Adjustment of the <u>background music feedthrough level</u> can be done through the LCD and Menu. De-
pending upon the application either call into the phone system and be placed on hold OR listen to the PA sys-
tems speakers to fine tune volume.

```
 INPUT A BGM
VOLUME = XX

 INPUT B BGM
VOLUME = XX
```

▼▲   Changes Volume

If you see a "LOCKED VOLUME SETTINGS" message then the dealer has locked this setting.
Note: This setting only adjusts the units audio inputs and <u>does not</u> adjust the volume of the internal speaker!

Step 4: All audio adjustments are applied live so changes are saved to the unit instantly.

Other LCD Status Messages:

Unit is booting:

```
          BOOTING...
      PLEASE WAIT...
```

Unit is initializing:

```
          SYSTEM IS
      INITIALIZING...
```

Unit is getting ip address:

```
          SYSTEM IS
      SEEKING IP...
```

Dealer is connected to unit:

```
      DIRECT CONNECT
          IS ACTIVE
```

Unit is connected to dealer:
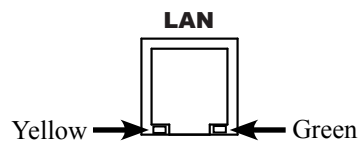
```
      ACTIVE CALLBACK
      XXX.XXX.XXX.XXX
```

Format and reboot in progress :

```
      FACTORY RESET
          IN PROCESS
```

Unit is formatting:

```
          SYSTEM IS
          FORMATTING
```

LAN LED Indicators

LAN

Yellow → ← Green

Action	LED
10MB	OFF
Not Used	FLASHING
100MB	SOLID

Action	LED
No Activity	OFF
Activity	FLASHING
Link	SOLID

Limited Warranty

TERMS: Spectrio warrants to the original purchaser ("Buyer") that the Product sold is free from defects in material and workmanship at the time of purchase. The warranty period begins at the time of Product's original purchase by the first end-user. The warranty applies for five (5) year from the original date of purchase, or as long as the product is owned by the original purchaser, whichever comes first. Included in the warranty are parts and labor. Buyer must provide written notice to Spectrio of any defective part or conditions within the warranty period. If the defect is not the result of improper use, service, maintenance or installation, and if the equipment has not been otherwise damaged or modified after shipment, Spectrio or its authorized representative shall either replace or repair the defective Product at Spectrio's option. No credit shall be allowed for work performed by Buyer or unauthorized parties. Out-of-warranty repairs are invoiced at the current hourly rate plus the cost of parts, shipping and handling. In the event that the product serial number is missing or has been tampered with in any way, the foregoing warranty is void and without effect and Spectrio shall have no liability whatsoever on account of defects to such product.

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FCC Part 15 : This equipment has been tested and found to comply within the limits for a Class A digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of the equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct interference at his own expense. In order to maintain compliance with FCC regulations shielded cables must be used with this equipment. Operation with non-approved equipment or unshielded cables is likely to result in interference to radio & television reception.

Changes or modifications not expressly approved by Spectrio could void the users' authority to operate the equipment.

IC ES 003 : This Class A digital apparatus complies with Canadian ICES-003 C et appareil numérique de la classe A est conform e à la norme NMB-003 du Canada.

CE CONFORMITY : The iLink conforms with the following standards, in accordance with the EU Safety, EMC Emissions, & EMC Immunities : EN 60950-1:2001, EN 55022:1998 for Class A, EN 55024:1998 + A1:2001 + A2:2003, EN 61000-4-2:1995 + A1:1998, EN 61000-4-3:1995, EN 61000-4-4:1995, EN 61000-4-5:1995, EN 61000-4-6:1996, EN 61000-5-11:1994.